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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
SAN FRANCISCO DIVISION

3COM CORPORATION,

Plaintiff,

v.

D-LINK SYSTEMS, INC.

and

REALTEK SEMICONDUCTOR CORP.,

Defendants.

Case No. CV-03-2177-VRW

**REALTEK'S NOTICE OF MOTION AND
MOTION FOR SUMMARY JUDGMENT
OF NON-INFRINGEMENT OF U.S.
PATENT NO. 5,307,459**

Judge: Vaughn R. Walker
Date: December 20, 2007
Time: 2:30 p.m.
Courtroom: 6, 17th Floor

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NOTICE OF MOTION AND MOTION

TO PLAINTIFF AND ITS ATTORNEYS OF RECORD:

PLEASE TAKE NOTICE that on December 20, 2007 at 2:30 p.m. in Courtroom 6 of this Court located at 450 Golden Gate Avenue, San Francisco, CA, or as soon thereafter as the matter may be heard, Defendant Realtek Semiconductor Corporation (“Realtek”) will and hereby does move this Court for summary judgment of non-infringement of asserted claim 1 of United States Patent No. 5,307,459 (“the ’459 Patent”) pursuant to Rule 56 of the Federal Rules of Civil Procedure.

This motion is based upon this Notice of Motion and Memorandum of Points and Authorities, the supporting declarations of Jen-Che Tsai (“Tsai Decl.”), Izhak Rubin, Ph.D. (“Rubin Decl.”) and S.H. Michael Kim (“Kim Decl.”), the other papers and pleadings on file, and on such other argument and evidence as may be presented to the Court at or prior to the hearing on this motion.

MEMORANDUM OF POINTS AND AUTHORITIES

I. INTRODUCTION

Among its claims in this action, 3Com alleges that Realtek’s accused network interface controller chips infringe claim 1 of its ’459 patent. The outcome of this allegation rests in part on the claim limitation “comparison means for . . . generating an indication signal *to the host*.” The Court has construed “indication signal” to mean a signal that “indicates a subsequent interrupt.” No such signal is generated to the host in the Realtek products. To prevail on this allegation, 3Com would have the Court ignore the “to the host” limitation, arguing either that the claim can be satisfied by a signal internal to the Realtek chips and never sent “to the host.” In the alternative, 3Com identifies a signal to the host, but that signal is not an indication signal. Because neither argument is consistent with the claim language, there is simply no evidence that Realtek infringes the ’459 patent and Realtek is entitled to summary judgment on this claim.¹

¹ Of course, even if the indication signal need not be sent to the host, and the signal then sent to the host need not be an indication signal, 3Com’s infringement claims would still fail. There are numerous other differences between the claim and the accused products. In addition, as set out in Realtek’s Motion in the Alternative for Summary Judgment of Invalidity of Claim 1 of the ’459 patent, filed herewith, under 3Com’s creative construction claim 1 is invalid in light of the earlier invention and offer for sale by Advanced Micro Devices, Inc.

1 **II. STATEMENT OF FACTS**

2 As the Court is aware, this case concerns the technology used in network adapters, also known
 3 as Network Interface Cards, or NICs. *See* Rubin Decl., Ex. 3 at 6. NICs handle the tasks associated
 4 with the transfer of data between a host computing system, such as a personal computer, and a data
 5 communications network, typically a local area network (LAN) such as an Ethernet standard network.
 6 Rubin Decl., Ex. 2. Data sent across such a network is organized in individual “packets” or “frames”
 7 sent sequentially one at a time. To transmit data over the network, the host system, through the CPU,
 8 composes frames or packets of data of a compliant format and size. The host system then sends data
 9 frames to the NIC. *Id.* The NIC temporarily stores the data frames and then sends them out to the
 10 network. *Id.* at 35-54. The NIC also receives data frames from the network and temporarily stores
 11 them before forwarding them to the host system’s memory. Thus, a NIC works with the host system’s
 12 operating system and central processing unit (CPU) to control the flow of data to and from the
 13 network.

14 **A. The ’459 Patent**

15 3Com’s ’459 patent discloses and claims a particular aspect of NIC design meant to increase
 16 the speed at which data is passed between the host and the network. Typically, whenever a NIC
 17 successfully receives or transmits a data packet, it informs the host system through an “interrupt.”
 18 Rubin Decl., Ex. 2 at 1:45-51. To respond to an interrupt, the host system must determine the source
 19 of the interrupt and the action it must then take. Before it can do so, it must save its current
 20 environment or system parameters. *Id.* at 1:51-62. There is interrupt latency (idle time) between when
 21 the network interface issues an interrupt indicating a complete data transfer and when the host system
 22 is able to service that interrupt and send or receive the next frame. *Id.* at 1:63-66. The ’459 invention
 23 attempts to reduce interrupt latency by using an early indication signal to tell the host system to begin
 24 saving its current environment and parameters before the network adapter is finished receiving or
 25 sending the entire data packet. *Id.* at 2:23-27.

26 The alleged invention in claim 1 of the ’459 patent uses “indication signals” to inform the host
 27 processor that a threshold amount of data has been transferred, in advance of a subsequent interrupt
 28 signal. *Id.* at 2:22-27; 3:8-14. In particular, the NIC generates an early indication signal when the

1 amount of data in the NIC's buffer memory exceeds a threshold value stored in an alterable storage
 2 location. *Id.* at 2:46-54. As the Court has construed that term, an "indication signal" is a "signal that
 3 indicates a subsequent interrupt." Rubin Decl., Ex. 3 at 18. The "indication signal" may itself be an
 4 interrupt, *id.* at 17, but it must also be followed by a second, subsequent interrupt. The patent discloses
 5 two methods of using the "indication signal." In the first instance, the indication signal is generated
 6 directly to the host:

7 The present invention provides for optimized indication signals to the host
 8 processor by a network adapter of the completion of a transfer of a data
 9 frame. . . The apparatus ***generates an indication signal to the host***
 10 ***processor*** responsive to the transfer of a data frame. ***The host processor***
 11 ***responds to the indication signal*** after a period of time. . .The indication
 signal to the host is generated based upon the comparison of the counter
 and the threshold value in the alterable storage location.

12 Rubin Decl., Ex. 2 at 2:35-54 (emphasis added). The '459 patent also discloses a second, indirect
 13 method of using the indication signal. In that embodiment, the indication signal is sent not to the host,
 14 but rather to the host interface logic within the network adaptor. In response to the indication signal,
 15 the host interface logic issues an early interrupt to the host. By sending the interrupt early, the network
 16 adaptor allows the host to save its current environment and prepare to service the interrupt while the
 17 remainder of the data transfer is completed.

18 According to another aspect of the present invention, the network interface
 19 logic includes control means for generating an interrupt signal to the host
 signal responsive to the indication signal.

20 *Id.* at 3:8-11.

21 The inventors clearly understood these two methods to be different, and they claimed them as
 22 distinct inventions. Asserted claim 1, at issue here, claims an apparatus according to the first
 23 embodiment, wherein the "indication signal" is sent directly to the host. Claim 1 includes the
 24 limitation of a threshold logic including a

25 means for comparing the counter to the threshold value in the alterable
 26 storage location and ***generating an indication signal to the host processor***
 27 responsive to a comparison of the counter and the alterable storage
 28 location.

1 *Id.* at 42:64-68 (emphasis added). On the other hand, dependent claim 5 and independent claim 22,
 2 neither of which is at issue here, claim an apparatus where the indication signal is sent to the host
 3 interface logic, and the host interface logic in turn “generates an *interrupt signal to the host*
 4 *processor.*” *Id.* at 44:46-49 (emphasis added). As the patent makes clear in claim 1, the threshold
 5 logic sends an indication signal directly to the host. In other claims, the threshold logic sends that
 6 signal to the host interface logic, which generates an interrupt to the host.

7 **B. Realtek’s Accused Products**

8 The Realtek accused products are integrated circuit chips which implement the primary
 9 functions of a NIC. Rubin Decl., ¶ 8. 3Com alleges that Realtek’s “RTL8139 and Related Products”
 10 and “RTL8169 and Related Products” infringe claim 1 of the ’459 patent. Kim Decl., Ex. A at 7; Ex. B
 11 at 3. This allegation encompasses all of the Realtek products at issue in this case. 3Com’s contentions
 12 assume that all of the accused Realtek products operate in the same manner for purposes of
 13 infringement of the ’459 patent. Kim Decl., Ex. A at 3. That assumption is simply false. First, many
 14 of the accused products simply do not include or implement the claimed early interrupt feature at all.
 15 Tsai Decl., ¶ 6; Rubin Decl., ¶ 12. At least the RTL8110SC(L), RTL8100E and RTL8101E products
 16 are not capable of comparing bytes received by the buffer memory to any threshold nor generate any
 17 indication signal as a result of any such comparison. *Id.* As such, 3Com can prove no set of facts that
 18 would support a finding that those products infringe the ’459 patent.

19 Similarly, the 8169 series products never send an early interrupt signal to the host. There is no
 20 comparison of bytes transferred into the buffer in the transmit mode to any threshold and these
 21 products do not provide any indication signal in advance of the interrupt generated when the entire
 22 packet is received into the buffer. Tsai Decl., ¶ 5; Rubin Decl., ¶ 12. For receive operations, circuitry
 23 exists in the 8169 products to compare the number of PCI memory cycles executed while transferring
 24 data from the FIFO to the host to an estimate of the number of cycles that are expected to elapse while
 25 transferring a given fraction of the packet. Tsai Decl., ¶ 6; Rubin Decl., ¶ 17. However, that circuitry
 26 is never enabled for operation in network adapters using these Realtek products. Tsai Decl., ¶ 15. That
 27 is because Realtek ships controller software that does not enable this function. *Id.* While that circuitry
 28

cannot be used in Realtek's 8169 series products, if enabled it would operate in the same way as the 8139 products discussed below.

Thus, the only Realtek chips rightly at issue here are the 8139 series and related products. The Realtek 8139 series products include registers that store a receive threshold value. That value is expressed as number of PCI bus cycles. Tsai Decl., ¶ 9; Rubin Decl., ¶ 16-17. When data received from the network is transferred to the host, the number of PCI bus cycles is counted and, when that count reaches the threshold value, the counter generates an "EROK," or "Early Receive OK" signal.² That signal sets a status bit within the Realtek controller chip. Tsai Decl., ¶¶ 9-10; Rubin Decl., ¶ 13. In response to the EROK status bit, the Realtek products generate the ROK, or "Receive OK," interrupt to the host. Tsai Decl., ¶¶ 9-10; Rubin Decl., ¶ 14. No subsequent interrupt is sent to the host after the ROK signal. *Id.* In no instance does the circuit that compares the number of PCI bus cycles generate any signal to the host, and in no instance does the Realtek product generate an indication signal to the host that "indicates a subsequent interrupt." *Id.* Rather, the accused Realtek products send one and only one interrupt signal – ROK. Tsai Decl., ¶¶ 9-15; Rubin Decl., ¶ 14.

III. ARGUMENT

A. Legal Standard

Summary judgment is appropriate when there is no genuine dispute of material fact. *Irdeto Access, Inc. v. Echostar Satellite Corp.*, 383 F.3d 1295, 1299 (Fed. Cir. 2004), quoting *Bai v. L & L Wings, Inc.*, 160 F.3d 1350, 1353 (Fed. Cir. 1998). Once one party moves for summary judgment and supports its motion with admissible evidence, the non-moving party must set forth specific facts showing that there is a genuine issue for trial. Fed. R. Civ. P. 56(e). "A nonmovant must do more than merely raise some doubt as to the existence of a fact" and must set forth enough evidence to enable a jury to reasonably find for the nonmoving party. *Avia Group Int'l, Inc. v. L.A. Gear California, Inc.*, 853 F.2d 1557, 1560 (Fed. Cir. 1988); *Anderson v. Liberty Lobby, Inc.*, 477 U.S. 242, 249-50 (1986).

² There are two different threshold values that can be used in certain Realtek products. In one instance, the threshold value is set as a fraction of the number of bus cycles estimated as necessary to transfer the entire packet. This variable is stored in the "ERTH3,2,1,0." Tsai Decl., ¶ 9. In the other instance, a fixed threshold valued can be set in the MISR[11,0] register. *Id.*, ¶ 10. These distinctions are not material for purposes of this motion because, regardless of the manner used to choose the PCI cycle threshold, the same circuitry is used to generate the "receive OK" or ROK interrupt.

1 When the nonmoving party fails to make a showing sufficient to establish evidence of an element
 2 essential to its case, the complete failure of proof concerning the essential element necessarily renders
 3 all other facts immaterial and a summary judgment is warranted. *Rotec Indus., Inc. v. Mitsubishi*
 4 *Corp.*, 215 F.3d 1246, 1250 (Fed. Cir. 2000). Summary judgment is as appropriate in a patent case as
 5 it is in any other case.” *C.R. Bard Inc. v. Advanced Cardiovascular Sys., Inc.*, 911 F.2d 670, 672 (Fed.
 6 Cir. 1990); *see also Desper Prods., Inc. v. Qsound Labs, Inc.*, 157 F.3d 1325, 1332 (Fed. Cir. 1998).

7 Determining whether a product infringes a patent claim requires a two step analysis. First, the
 8 court construes the asserted claim and, second, the court compares the properly construed claim to the
 9 accused products. *Cybor Corp. v. FAS Techs., Inc.*, 138 F.3d 1448, 1454 (Fed. Cir. 1998) (*en banc*);
 10 *Johnson Worldwide Assocs., Inc. v. Zebco Corp.*, 175 F.3d 985, 988 (Fed. Cir. 1999). Literal
 11 infringement is found only if each and every limitation of the claim is present in the accused products,
 12 either literally or under the doctrine of equivalents. *See, e.g., Deering Precision Instruments, LLC v.*
 13 *Vector Distrib. Sys., Inc.*, 347 F.3d 1314, 1324 (Fed. Cir. 2003). The patentee bears the burden of
 14 proving infringement by a preponderance of the evidence. *Laitram Corp. v. Rexnord, Inc.*, 939 F.2d
 15 1533, 1535 (Fed. Cir. 1991); *Ultra-Tex Surfaces, Inc. v. Hill Bros. Chem. Co.*, 204 F.3d 1360, 1364
 16 (Fed. Cir. 2000).

17 The claim element at issue here is in “means-plus-function” form. The Court earlier resolved
 18 the parties’ dispute and found that the entire “means for comparing” limitation at issue here, including
 19 the “generating an indication signal to the host” limitation is subject to the requirements of 35 U.S.C.
 20 § 112 ¶ 6. Rubin Decl., Ex. 3 at 18-19. In order to meet its burden of proof, 3Com must demonstrate
 21 that there is some structure in the Realtek Products that literally performs the function recited in the
 22 claim limitation, and that it does so using the identical or equivalent circuit structure disclosed in the
 23 patent specification as performing that function. *Omega Eng’g, Inc. v. Raytek Corp.*, 334 F.3d 1314,
 24 1328 (Fed. Cir. 2003).

25 Here, 3Com cannot meet its burden with respect to claim 1 of the ‘459 patent. There is no
 26 dispute regarding the relevant operation of the accused Realtek products. The undisputed evidence
 27 demonstrates that those products do not include any circuitry that performs the function of “generating
 28 an indication signal to the host processor” as the claim requires. In addition, although discovery in this

1 matter is closed, 3Com has never identified *any* specific structure in the accused Realtek product as
 2 identical or equivalent to the structure in the '459 patent. For that matter, 3Com has never identified
 3 the structure in the patent it contends performs the claimed function. While all of these are grounds on
 4 which summary judgment should be granted. Realtek's failure to perform the claimed function alone
 5 is fatal to 3Com's case.

6 **B. The Accused Realtek Products Do Not Perform the Function of “Generating an**
 7 **Indication Signal to the Host Processor” as Required by Claim 1.**

8 1. Claim 1 Requires that the “Indication Signal” be Sent Directly to the Host.

9 It has become clear that 3Com's infringement position is essentially a claim construction
 10 position. There is no dispute that no Realtek product sends an “indication signal” directly to the host.
 11 Thus only if claim 1 is construed not to have that requirement can 3Com prevail. At issue here is the
 12 last element of claim 1, which reads:

13 means for comparing the counter to the threshold value in the alterable
 14 storage location and generating an indication signal to the host processor
 15 responsive to a comparison of the counter and the alterable storage
 location.

16 Rubin Decl., Ex. 2 at 42:64-68. Construction of a “means-plus-function” element entails two steps.
 17 First, the claimed function must be identified. Then the court must determine what structure in the
 18 specification as particularly associated with that function. *Medtronic, Inc. v. Advanced Cardiovascular*
 19 *Sys., Inc.*, 248 F.3d 1303 (Fed. Cir. 2001). The recited function is to: 1) compare the value in the
 20 counter (showing the amount of data transferred to buffer memory) to the pre-stored threshold value;
 21 and 2) generate an indication signal to the host processor.

22 3Com bases its entire infringement position on the novel assertion that the claim language
 23 “generating an indication signal *to the host processor*” does not require that the indication signal
 24 actually be sent to the host processor. To state that argument is to demonstrate its absurdity. While the
 25 parties disputed various aspects of the claim limitation during the claim construction process, the
 26 phrase “generating . . . to the host processor” was not at issue. Resolving the parties' other disputes,
 27 the Court construed “indication signal” to mean “a signal that indicates a subsequent interrupt.” Rubin
 28

Decl., Ex. 3 at 18. It also determined that the 35 U.S.C. § 112 ¶ 6 applied to the entire “means for comparing . . .” element in which the “indication signal” limitation is found. *Id.* at 19.

The phrase “generating an indication signal to the host processor” is clear on its face. In the context of claim 1, the “means for comparing” must create the indication signal, and the indication signal must be sent to the host. A review of the patent specification reinforces this plain language. The patentee used the phrase “generated to the host processor” repeatedly in the specification. Each time the patentee clearly means a signal sent to the host processor on which the processor will act. Among the types of signals described as “generated to the host” are interrupts. For example, the patent discusses the prior art systems where “an interrupt is generated by the network adapter to the host processor on the completion of a data transfer.” Rubin Decl., Ex. 2 at 1:49-51. The patent also discusses a control means for “generating an interrupt signal to the host processor.” *Id.* at 3:9-11 and 3:26-28. By definition an interrupt is a signal sent to the processor. In another aspect of the alleged invention, an “indication signal is generated to the host processor.” On the other hand, where the indication signal is not sent to the host, the specification makes that clear. It describes another aspect of the invention as including a control means for “generating an interrupt signal to the host processor” based on or in response to the indication signal. *Id.* at 3:8-11 and 3:25-28. In that case, the interrupt, and not the indication signal, is generated, or sent, to the host.

As can be seen from a cursory review of the patent, the patent uses the phrase “generated to the host” even to mean a signal sent to the host that is generated by the network adapter. The indication signal maybe sent directly to the host. *Id.* at 2:35-36 (“the apparatus generates an indication signal to the host”) and 2:52-54 (“The indication signal to the host is generated . . .”). The indication signal maybe used internally to generate an interrupt to the host. In either event, the patent always uses the phrase “generated to the host” the mean a signal sent to and acted on by the host processor. That is the meaning of that phrase as used in claim 1. As such, infringement requires that the means for comparing send an indication signal directly to the host processor. Realtek’s products do not. *Id.* at 41:41-48. “These early indications may be used to generate an early interrupt to the host processor before the data frame is transferred . . .”

2. The Realtek Products Do Not “Generate an Indication Signal to the Host Processor”.

3Com cannot meet its burden of proving that the accused Realtek products infringe for the simple reason that there is no signal generated by those products that meets the claim requirement of “generating an indication signal to the host processor.” As discussed above, this claim limitation requires, at a minimum, a signal that is a) sent to the host, and b) indicates a subsequent interrupt. No signal identified by 3Com meets these claim limitations. As such, it is evident that the accused Realtek products do not perform the function of “generating” any such signals.

In its Final Infringement Contentions, 3Com alleged, *inter alia*, that the TOK or “Transmit OK” interrupt as claimed “indication signal.” Kim Decl., Ex. A at 21. That contention was echoed by 3Com’s infringement expert. Kim Decl., Ex. 2 at 12. That contention is based on a complete failure to understand the operation of Realtek’s accused products. None of the accused products issue an interrupt or any other signal based on any threshold amount of data received into the transmit FIFO. Rather, in some products the TOK interrupt is generated only after complete packets are received. In others, TOK is generated only after a complete packet is transmitted to the network medium. Tsai Decl., ¶ 5. As such, the accused products are wholly missing the “means for comparing...and generating an indication signal to the host” element on the transmit side. *Id.*, Rubin Decl., ¶ 12. That element is also not met by the circuitry for receiving data from the network.

3Com also points to the creation of the “EROK” signal in certain of the accused Realtek products as satisfying the “generating an indication signal to the host.” Kim Decl., Ex. A at 20-21; Ex. 2 at 11. However, as 3Com’s expert recognizes, the EROK signal is not sent to the host. Kim Decl., Ex. C at 74:24-75:25. As such, it can not be the indication signal required by the claim. 3Com appears to argue that, because the EROK bit in the Realtek controller can be read by the controller, somehow this satisfies “generating an indication signal.” That is simply wishful thinking. Setting a bit that theoretically could be read by the host processor, but in fact never is read by the host processor, is not generating a signal to the host processor. 3Com’s expert admits that the host processor would not be able to read that bit until *after* it is interrupted. *Id.* at 81:14-21, 8:13-25. As such, even if setting that bit could be considered generating a signal, that bit is incapable of “heralding the arrival” of a

1 **subsequent** interrupt. Rather it is not until the interrupt is received that the host is aware of EROK
 2 bits. As such, it is not an indication signal. Nor can 3Com include the generation of the ROK interrupt
 3 as part of the “means for generating an indication signal.” While the ROK interrupt is indeed generated
 4 to the host processor, it does not indicate a *subsequent interrupt*. There is no interrupt that follows
 5 ROK. Rubin Decl., ¶ 15. Because there is no subsequent interrupt to indicate, the ROK can not be an
 6 ‘indication signal’ as required by claim 1.

7 **IV. CONCLUSION**

8 Because 3Com cannot identify any “indication signal” that is “generated to the host processor”
 9 as required by claim 1, there can be no infringement. For this reason, the Court should grant Realtek’s
 10 Motion for Summary Judgment that Realtek’s accused products do not infringe Claim 1 of the ’459
 11 patent.

12 Dated: November 16, 2007

AKIN GUMP STRAUSS HAUER & FELD LLP

13 By: _____/s/_____
 14 Elizabeth H. Rader

15 Attorneys For Defendant
 16 REALTEK SEMICONDUCTOR CORPORATION

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